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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT EXAMINING OPERATION

Applicant(s): RAUTENBACH, et al.

Serial No: 09/858,426 Group Art Unit: 2171

Filed: May 16, 2001 Examiner: U.T. Le

Att. Docket No.: E1083/20017 Confirmation No.: 4250

For: Method and Structure for Reducing Search Times

**STATEMENT UNDER 37 CFR 3.73(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The Assignee of the entire right, title and interest hereby seeks to take action in the Patent and Trademark Office in this matter.

**IDENTIFICATION OF ASSIGNEE**

Esmertec AG  
A Switzerland Corporation  
Lagerstrasse 14  
Ch-8600  
Dübendorf, Switzerland

**PERSON AUTHORIZED TO SIGN**

I, Sylvie Vollet, represent that I am General Counsel for the Assignee, and aver that I am empowered to sign this statement on behalf of the Assignee.

RECEIVED  
JUL 16 2003  
Technology Center 2100

**BASIS OF ASSIGNEE'S INTEREST**

All right, title and interest in and to Application Serial No. 09/858,426 were transferred from the inventors to Insignia Solutions, plc by an assignment recorded at Reel/Frame 012095/0932.

All right, title and interest in and to Application Serial No. 09/858,426 were transferred from Insignia Solutions, plc to Esmertec AG as indicated by a copy of an assignment attached hereto.

**DECLARATIONS**

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of any patent issuing thereon.

ESMERTEC AG

Date: July 9, 2003

By S. Vollet  
Sylvie Vollet  
General Counsel

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

PATENTS ONLY

Tab settings ⇡ ⇢ ⇣

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

INSIGNIA SOLUTIONS, PLC

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

- Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: 7/03/2003

2. Name and address of receiving party(ies)

Name: ESMERTEC AG

Internal Address: \_\_\_\_\_

Street Address: LAGERSTRASSE 14

CH-8600

City: DÜBENDORF State: CH Zip: \_\_\_\_\_

Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) \_\_\_\_\_

(See attached sheet)

B. Patent No.(s) 5,406,644

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: \_\_\_\_\_

Customer No. 03000  
Internal Address: \_\_\_\_\_

6. Total number of applications and patents involved: 17

7. Total fee (37 CFR 3.41).....\$ 680

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

03-0075

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

DO NOT USE THIS SPACE

9. Signature.

Scott M. Slomowitz

Name of Person Signing

Signature

July 7, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 9

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Mail Stop Assignment Recordation Services

P.O. Box 1450, Alexandria, VA 22313-1450

**PATENT APPLICATION NOS. FOR ASSIGNMENT**

|            |            |
|------------|------------|
| 09/858,827 | 09/858,426 |
| 09/859,072 | 09/859,162 |
| 09/859,133 | 09/858,578 |
| 09/859,163 | 10/203,151 |
| 09/859,161 | 10/203,060 |
| 09/858,826 | 10/203,123 |
| 09/859,134 | 10/203,124 |
| 09/859,135 | 09/996,169 |

**ASSIGNMENT OF INVENTIONS**

WHEREAS, INSIGNIA SOLUTIONS, PLC, (hereinafter "INSIGNIA") a United Kingdom corporation having its principal place of business at:

Insignia House  
The Mercury Centre  
Wycombe Lane, Wooburn Green  
High Wycombe, Bucks HP 10 0HH  
United Kingdom

has acquired, by assignment from the inventors, the entire right, title and interest in and to several inventions, related patent applications and Letters Patent as set forth in Exhibits A-B;

WHEREAS, ESMERTEC AG (hereinafter "ESMERTEC"), a Switzerland corporation having its principal place of business at:

Esmertec AG  
Lagerstrasse 14  
Ch-8600  
Dübendorf, Switzerland

is desirous of acquiring the entire right, title and interest in and to each of the several inventions, related patent applications and Letters Patent and has previously entered into an Asset Purchase Agreement with INSIGNIA dated March 4, 2003;

NOW, THEREFORE, INSIGNIA, IN CONSIDERATION of the Asset Purchase Agreement, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound, agrees as follows:

1. INSIGNIA by these presents does hereby sell, assign and convey, unto ESMERTEC, its successors and assigns, INSIGNIA's entire right, title and interest:

- a) in and to each invention described in the United States and foreign patent applications listed in Exhibit A, and in and to each invention described in the United States Letters Patent listed in Exhibit B;
- b) in and to each United States patent application listed in Exhibit A, in and to each United States Letters Patent listed in Exhibit B, and in and to all other patent applications (including divisional, continuation, continuation-in-part, §111(b) provisional, §111(a), and reissue applications) based upon each invention, and in and to the patent or patents to be granted thereon, including reissues thereof, if any, to the full end of the term or terms for which said patent or patents may be granted;
- c) in and to all foreign patent applications for each invention now or hereafter filed in countries foreign to the United States of America including those patent applications listed in Exhibit A, and in and to any and all patents granted on said foreign patent applications to the full end of the terms for which said patents may be granted;
- d) under the International Convention with respect to the patent applications listed in Exhibit A and agrees that any further patent applications that may be filed based on the patent applications listed in

Exhibit A shall be filed in the name of ESMERTEC with a claim of priority based on its associated prior patent applications; and

- e) in and to all rights to sue others for past acts of infringement of the United States Letters Patent listed in Exhibit B and to retain all revenues received from others for past acts of infringement of said United States Letters Patent.

2. INSIGNIA, upon demand of ESMERTEC, its successors or assigns, hereby agrees that it will and without further consideration to ESMERTEC, execute any and all papers that may be necessary, or deemed by ESMERTEC, its successors or assigns, to be necessary, to a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers shall be paid by ESMERTEC, its successors and assigns and not by INSIGNIA.

3. The Commissioner of Patents and Trademarks of the United States is hereby authorized and requested to issue any United States patent or patents that issue from any United States patent application listed in Exhibit A, or any divisional, continuing, renewal, reissue or other patent applications based on the United States patent applications, to ESMERTEC.

IN WITNESS WHEREOF, I hereunto affix my hand and seal this 3rd  
day of July, 2003.

INSIGNIA SOLUTIONS, PLC

By Linda Potts

Name: Linda Potts

Title: Chief Financial Officer

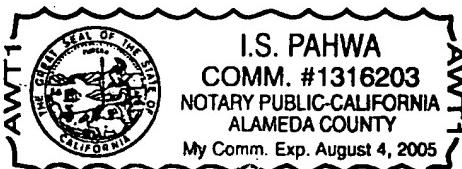
STATE OF CALIFORNIA

COUNTY OF Alameda

:SS:

Before me personally appeared said Linda Potts of INSIGNIA  
SOLUTIONS, PLC and acknowledged that she is the Chief Financial Officer of  
INSIGNIA SOLUTIONS, PLC, that she has the authority to execute this  
Assignment on behalf of INSIGNIA SOLUTIONS PLC and has acknowledged the  
foregoing instrument to be her free act and deed this 3 day of

July, 2003.



  
(Seal)  
Notary Public

My Commission Expires: Aug. 4, 2005

**EXHIBIT A**

| <b><u>Title of Patent Application</u></b>  | <b><u>Country</u></b> | <b><u>Application No.</u></b> | <b><u>Filing Date</u></b> |
|--|-----------------------|-------------------------------|---------------------------|
| Dynamic Compiler and Method of Compiling Code to Generate Dominant Path and to Handle Exceptions | US                    | 09/858,827                    | May 16, 2001              |
| Method and System for Cache Management Using Spatial Separation of Outliers                      | US                    | 09/859,072                    | May 16, 2001              |
| Hash Table Dispatch Mechanism for Interface Methods  | US                    | 09/859,133                    | May 16, 2001              |
| Method and System of Dynamic Memory Management   | US                    | 09/859,163                    | May 16, 2001              |
| Method and System for Memory Management Using Stack Walking                                      | US                    | 09/859,161                    | May 16, 2001              |
| Low-Contention Grey Object Sets for Concurrent, Marking Garbage Collection                       | US                    | 09/858,826                    | May 16, 2001              |
| Method and System for Handling Device Driver Interrupts  | US                    | 09/859,134                    | May 16, 2001              |
| Direct Invocation of Methods Using Class Loader  | US                    | 09/859,135                    | May 16, 2001              |
| Method and Structure for Reducing Search Times   | US                    | 09/858,426                    | May 16, 2001              |
| Method and System of Testing and Verifying Computer Code in a Multi-Threaded Environment         | US                    | 09/859,162                    | May 16, 2001              |
| Multi-Threaded Fragment Patching   | US                    | 09/858,578                    | May 16, 2001              |

**EXHIBIT A (Continued)**

| <b><u>Title of Patent Application</u></b>   | <b><u>Country</u></b> | <b><u>Application No.</u></b> | <b><u>Filing Date</u></b> |
|---|-----------------------|-------------------------------|---------------------------|
| Preprocessing of Interfaces to Allow Fast Call Through  | US                    | 10/203,151                    | December 3, 2002          |
| Non-Zero Null References to Speed Up Write Barrier Checking for Garbage Collection                                  | US                    | 10/203,060                    | March 24, 2003            |
| Global Constant Pool to Allow Deletion of Constant Pool Entries   | US                    | 10/203,123                    | March 7, 2003             |
| Reduced Size Object Headers   | US                    | 10/203,124                    | March 24, 2003            |
| Inter-Method Control Transfer for Execution Engines with Memory Constraints   | US                    | 09/996,169                    | November 28, 2001         |
| Computer System, Computer-Readable Storage Medium and Method of Operating Same, and Method of Operating that System | Europe                | 99909100.2                    | March 16, 1999            |
| Computer System, Computer-Readable Storage Medium and Method of Operating Same, and Method of Operating that System | Japan                 | 2000-582880                   | March 16, 1999            |

## **EXHIBIT B**

| <b><u>Title of Patent</u></b>   | <b><u>Country</u></b> | <b><u>Patent No.</u></b> | <b><u>Issue Date</u></b> |
|---|-----------------------|--------------------------|--------------------------|
| Apparatus & Method for Emulating a Computer Instruction Set Using a Jump Table in the Host Computer | US                    | 5,406,644                | April 11, 1995           |